

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-30 (Canceled).

Claim 31 (New): A method of driving a self-luminescent display apparatus having self-luminescent elements arranged in a pattern of a matrix and each of pixel circuits provided in association with each of said self-luminescent elements, said method comprising:

applying a gray level current corresponding to a display gray level to each of said pixel circuits for a first period;

applying a display current based on said gray level current to said self-luminescent elements during a second period succeeding said first period to display corresponding said display gray level; and

applying a precharge current to said self-luminescent elements during a third period before said first period on the basis of a predetermined first condition.

Claim 32 (New): The method of driving a self-luminescent display apparatus according to claim 31, wherein said third period is varied depending on a display gray level that provides a display current applied to said self-luminescent elements.

Claim 33 (New): The method of driving a self-luminescent display apparatus according to claim 31, wherein a current value corresponding to a display gray level of display provided by said self-luminescent elements in a predetermined row on the same column of said matrix is compared with a current value corresponding to a display gray level of display to be provided by said self-luminescent elements in a row next to said predetermined row, and

as said predetermined first condition, if a difference between said current values has a value equal to or larger than at least a predetermined value, when said next row is displayed, the precharge current is applied to said self-luminescent elements in said next row during said third period.

Claim 34 (New): The method of driving a self-luminescent display apparatus according to claim 33, wherein said third period is varied depending on the magnitude of said difference.

Claim 35 (New): The method of driving a self-luminescent display apparatus according to claim 31, wherein the current value corresponding to the display gray level of the display provided by said self-luminescent elements in the predetermined row on the same column of said matrix is compared with the current value corresponding to the display gray level of the display to be provided by said self-luminescent elements in the row next to said predetermined row, and as said predetermined first condition, if the difference between said current values has a value smaller than a predetermined value, when said self-luminescent elements in said next row provide display, said precharge current is not applied.

Claim 36 (New): The method of driving a self-luminescent display apparatus according to claim 33, wherein the current value corresponding to the display gray level of the display provided by said self-luminescent elements in the predetermined row on the same column of said matrix is compared with the current value corresponding to the display gray level of the display to be provided by said self-luminescent elements in the row next to said predetermined row, and as said predetermined first condition, if the difference between said

current values has a value smaller than a predetermined value, when said self-luminescent elements in said next row provide display, said precharge current is not applied.

Claim 37 (New): The method of driving a self-luminescent display apparatus according to claim 31, wherein as said predetermined first condition, if the display gray level of display provided by said self-luminescent elements has a current value corresponding to black display, when said display gray level is displayed, said precharge current is not applied.

Claim 38 (New): The method of driving a self-luminescent display apparatus according to claim 31, wherein a value for said precharge current is a current value corresponding to white display.

Claim 39 (New): The method of driving a self-luminescent display apparatus according to claim 31, wherein said third period is selected from a group of third periods corresponding to a plurality of pulse lengths prepared for a driving circuit.

Claim 40 (New): The method of driving a self-luminescent display apparatus according to claim 31, further comprising applying a predetermined voltage to said self-luminescent elements during a fourth period before said third period on the basis of a predetermined second condition.

Claim 41 (New): The method of driving a self-luminescent display apparatus according to claim 40, wherein the current value corresponding to the display gray level of the display provided by said self-luminescent elements in the predetermined row on the same column of said matrix is compared with the current value corresponding to the display gray

level of the display to be provided by said self-luminescent elements in the row next to said predetermined row, and as said predetermined second condition, if the difference between said current values has a value equal to or larger than a predetermined value, when said self-luminescent elements in said next row provide display, said predetermined voltage is applied to said self-luminescent elements in said next row during said fourth period.

Claim 42 (New): The method of driving a self-luminescent display apparatus according to claim 40, wherein as said predetermined second condition, if the display gray level of the display provided by said self-luminescent elements has a current value corresponding to the black display, when said display gray level is displayed, said predetermined voltage is applied to said self-luminescent elements during said fourth period.

Claim 43 (New): The method of driving a self-luminescent display apparatus according to claim 40, wherein said predetermined voltage is equal to a voltage corresponding to a value for a current applied during a last display provided by said self-luminescent elements or corresponds to low gray level color display.

Claim 44 (New): The method of driving a self-luminescent display apparatus according to claim 43, wherein said first voltage corresponds to the voltage for black display.

Claim 45 (New): A display control device for a self-luminescent display apparatus having self-luminescent elements arranged in a pattern of a matrix and each of pixel circuits provided in association with each of said self-luminescent elements, said self-luminescent display apparatus applying a gray level current corresponding to a display gray level to each of said pixel circuits for a first period, and applying a display current based on said gray level

current to said self-luminescent elements during a second period succeeding said first period to display the corresponding said display gray level, said display control device comprising:

precharge current applying instrument of applying a precharge current to said self-luminescent device during a third period before said first period on the basis of a predetermined first condition.

Claim 46 (New): The display control device for the self-luminescent display apparatus according to claim 45, wherein said third period is varied depending on a display gray level that provides a display current applied to said self-luminescent elements.

Claim 47 (New): The display control device for the self-luminescent display apparatus according to claim 45, wherein a current value corresponding to a display gray level of display provided by said self-luminescent elements in a predetermined row on the same column of said matrix is compared with a current value corresponding to a display gray level of display to be provided by said self-luminescent elements in a row next to said predetermined row, and

as said predetermined first condition, if a difference between said current values has a value equal to or larger than a predetermined value, when said next row is displayed, the precharge current is applied to said self-luminescent elements in said next row during said third period.

Claim 48 (New): The display control device for the self-luminescent display apparatus according to claim 47, wherein said third period is varied depending on the magnitude of said difference.

Claim 49 (New): The display control device for the self-luminescent display apparatus according to claim 45, wherein the current value corresponding to the display gray level of the display provided by said self-luminescent elements in the predetermined row on the same column of said matrix is compared with the current value corresponding to the display gray level of the display to be provided by said self-luminescent elements in the row next to said predetermined row, and as said predetermined first condition, if the difference between said current values has a value smaller than a predetermined value, when said self-luminescent elements in said next row provide display, a precharge current is not applied.

Claim 50 (New): The display control device for the self-luminescent display apparatus according to claim 47, wherein the current value corresponding to the display gray level of the display provided by said self-luminescent elements in the predetermined row on the same column of said matrix is compared with the current value corresponding to the display gray level of the display to be provided by said self-luminescent elements in the row next to said predetermined row, and as said predetermined first condition, if the difference between said current values has a value smaller than a predetermined value, when said self-luminescent elements in said next row provide display, a precharge current is not applied.

Claim 51 (New): The display control device for the self-luminescent display apparatus according to claim 45, wherein as said predetermined first condition, if the display gray level of display provided by said self-luminescent elements has a current value corresponding to black display, when said display gray level is displayed, said precharge current is not applied.

Claim 52 (New): The display control device for the self-luminescent display apparatus according to claim 45, wherein a value for said precharge current is a current value corresponding to the value for white display.

Claim 53 (New): A current output driving circuit for a self-luminescent display apparatus having self-luminescent elements arranged in a pattern of a matrix and each of pixel circuits provided in association with each of said self-luminescent elements, said self-luminescent display apparatus applying a gray level current corresponding to a display gray level to each of said pixel circuits for a first period, and applying a display current based on said gray level current to said self-luminescent elements during a second period succeeding said first period to display corresponding said display gray level, said current output driving circuit applying a precharge current to said self-luminescent device during a third period before said first period on the basis of a predetermined first condition, the current output driving circuit comprising:

third period generating instrument which simultaneously generates a plurality of said third periods having different time lengths.

Claim 54 (New): The current output driving circuit for the self-luminescent display apparatus according to claim 53, wherein said plurality of third periods are generated on the basis of pulse lengths used when said precharge current is applied.

Claim 55 (New): The current output driving circuit for the self-luminescent display apparatus according to claim 53, wherein said current output driving circuit is used as a current output source driver circuit.

Claim 56 (New): A self-luminescent display apparatus comprising:
self-luminescent elements arranged in a pattern of a matrix;
each of pixel circuits provided in association with each of said self-luminescent elements; and
a driving circuit that drives said self-luminescent elements and said pixel circuit,
wherein said driving circuit has at least one of the current output driving circuit according to claim 53.

Claim 57 (New): The self-luminescent display apparatus according to claim 56, wherein said self-luminescent elements are organic EL elements.

Claim 58 (New): An electronic equipment comprising the self-luminescent display apparatus according to claim 57 as a display instrument.

Claim 59 (New): The electronic equipment according to claim 58, wherein the electronic apparatus is used as a television.

Claim 60 (New): A self-luminescent display apparatus comprising:
self-luminescent elements arranged in a pattern of a matrix;
each of pixel circuits provided in association with each of said self-luminescent elements; and
the display control device for the self-luminescent display apparatus according to claim 45;
wherein said display control device performs an operation for application of said precharge current.

Claim 61 (New): The self-luminescent display apparatus according to claim 60, wherein said self-luminescent elements are organic EL elements.

Claim 62 (New): An electronic equipment comprising the self-luminescent display apparatus according to claim 61 as a display instrument.

Claim 63 (New): The electronic equipment according to claim 62, wherein the electronic apparatus is used as a television.

Claim 64 (New): A self-luminescent display apparatus comprising:
self-luminescent elements arranged in a pattern of a matrix;
each of pixel circuits provided in association with each of said self-luminescent elements; and
an output driving circuit for the self-luminescent display apparatus according to claim 53,
wherein said display control device performs an operation for application of said precharge current.

Claim 65 (New): The self-luminescent display apparatus according to claim 64, wherein said self-luminescent elements are organic EL elements.

Claim 66 (New): An electronic equipment comprising the self-luminescent display apparatus according to claim 65 as a display instrument.

Claim 67 (New): The electronic equipment according to claim 66, wherein the electronic apparatus is used as a television.

Claim 68 (New): A recording medium on which a program for allowing a computer to execute a step of applying a gray level current corresponding to a display gray level to each of said pixel circuits for a first period, a step of applying a display current based on said gray level current to said self-luminescent elements during a second period succeeding said first period to display the corresponding said display gray level, and a step of applying a precharge current to said self-luminescent device during a third period before said first period on the basis of a predetermined first condition, the steps being included in the method of driving the self-luminescent display apparatus according to claim 31 is recorded, wherein the recording medium can be processed by a computer.